Appendix A: Sample Exemplary Schema To Organize EPG Metadata To Support

Multi-Axis TV Navigation

1

2

3

```
4
    <?xml version="1.0" encoding="UTF-8"?>
    <xs:schema
                                            xmlns:xs="http://www.w3.org/2001/XMLSchema"
5
    elementFormDefault="qualified">
           <xs:element name="actor">
6
                 <xs:complexType>
7
                        <xs:attribute name="name" type="xs:string" use="required"/>
                 </xs:complexType>
8
           </xs:element>
           <xs:element name="axis">
9
                 <xs:complexType>
10
                        <xs:sequence>
                              <xs:element ref="programs"/>
11
                        </xs:sequence>
                        <xs:attribute name="name" use="required">
12
                              <xs:simpleType>
                                     <xs:restriction base="xs:NMTOKEN">
13
                                           <xs:enumeration value="actor axis"/>
14
                                           <xs:enumeration value="episode axis"/>
                                           <xs:enumeration value="director axis"/>
15
                                           <xs:enumeration value="rating axis"/>
                                           <xs:enumeration value="alphabetical axis"/>
16
                                           <xs:enumeration value="airing date axis"/>
                                     </xs:restriction>
17
                              </xs:simpleType>
18
                        </xs:attribute>
                 </xs:complexType>
19
           </xs:element>
           <xs:element name="id" type="xs:string"/>
20
           <xs:element name="program">
                 <xs:complexType>
21
                        <xs:sequence>
22
                              <xs:element
                                                      ref="actor"
                                                                              minOccurs="0"
    maxOccurs="unbounded"/>
23
                        </xs:sequence>
                        <xs:attribute name="id" type="xs:string" use="required"/>
24
                        <xs:attribute name="title" type="xs:string" use="required"/>
                        <xs:attribute name="description" type="xs:string" use="required"/>
25
```

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```
<xs:attribute name="rating" type="xs:string"/>
1
                 </xs:complexType>
           </xs:element>
2
          <xs:element name="program_info">
                 <xs:complexType>
3
                       <xs:sequence>
                              <xs:element ref="programs"/>
4
                              <xs:element ref="axis" maxOccurs="unbounded"/>
5
                       </xs:sequence>
                 </xs:complexType>
6
           </xs:element>
          <xs:element name="programs">
7
                 <xs:complexType>
                       <xs:choice>
8
                              <xs:element ref="program" maxOccurs="unbounded"/>
9
                              <xs:element ref="id" maxOccurs="unbounded"/>
                        </xs:choice>
10
                 </xs:complexType>
           </xs:element>
11
    </xs:schema>
12
13
14
15
16
17
18
19
20
21
22
23
24
25
```

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